SECTION 1: IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier

Tradename: CULR™ Art Pigment for Epoxy – Polished Copper

1.2. Relevant identified uses of the substances or mixture and uses advised against

Relevante identified uses of the substance or mixture

Industry sector: Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry

Type of use: Colourant preparation

1.3. Details of the supplier of the safety data sheet

Identification of the company:

Easy Composites Ltd
Unit 39 Park Hall Business Village
Stoke on Trent, ST3 5XA. United Kingdom.
Phone: +44 (0)1782 454499

Information to substance / mixture:

Division: Technical
E-mail: technical@glasscastresin.com

1.4. Emergency telephone number

Emergency CONTACT (Office Hours) Phone: +44 (0)1782 454499

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance / mixture

Classification (Regulation (EC) No.1272/2008):

Not a dangerous substance according to GHS.

2.2. Label elements

Labeling(Regulation (EC) No.1272/2008):

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION / INFORMATION TO INGREDIENTS

3.1. Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. INDEX No. Registration No.	Classification Regulation (EC) No. 1272/2008)	Concentration (% w/w)
salt of polyamineamide (72243/00/2008.0023, Germany)	Not Assigned	Skin Irrit. 2; H315	≥ 1 - ≤ 10

The full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Discription of first aid measures

General information:
No hazards which requires special first aid measures.
Move the victim to fresh air.
Do not leave the victim unattended.

After inhalation:
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.

After contact with skin:
Wash off immediately with soap and plenty of water.

After contact with eyes:
Remove contact lenses.
If eye irritation persists, consult a specialist.
Immediately flush eye(s) with plenty of water.

After swallowing:
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2. Most important symptoms and effects, both acute and delayed symptoms

This information is not available.

4.3. Indication of any immediate medical attention and special treatment needed

No symptoms known currently.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

This information is not available.

5.2. Special hazards arising from the substance or mixture

This information is not available.

5.3. Advice for firefighters

Special protective equipment for firefighters:
In the event of fire, wear self-contained breathing apparatus.

Further information:
Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
This information is not available.

6.2. Environment precautions
This information is not available.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up:
Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

6.4. Cross Reference to other sections
This information is not available.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Advice on safe handling:
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion:
Normal measures for preventive fire protection.

Hygiene measures:
General industrial hygiene practice.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers:
Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage:
No materials to be especially mentioned.

Storage stability:
Storage stability of at least 18 month.

7.3. Specific end use(s)
This information is not available.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters
Occupational Exposure Limits

Compo-nents	CAS-No.	Value type (Form of exposure)	Control param-eters	Update	Basis
Titanium Dioxide	13463-67-7	TWA (Inhalable dust)	10 mg/m^3	2011-12-01	GB EH40
Further information		For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg/m^3 8-hour TWA of inhalable dust or 4 mg/m^3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs			

		and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'., Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.			
Titanium Dioxide	13463-67-7	TWA (Respirable dust)	4 mg/m^3	2011-12-01	GB EH40
Further information		For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg/m^3 8-hour TWA of inhalable dust or 4 mg/m^3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'., Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.			
		TWA (Inhalable)	10 mg/m^3	2011-1201	GB EH40
Further information		The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg/m^3 8-hour TWA of inhalable dust or 4 mg/m^3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.			

	TWA (Respirable)	4 mg/m³	2011-12-01	GB EH40
Further information	The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg/m³ 8-hour TWA of inhalable dust or 4 mg/m³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.			
mica	TWA (Inhalable)	10 mg/m³	2005-04-06	GB EH40
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
mica	TWA (Respirable)	0,8 mg/m³	2005-04-06	GB EH40
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	**End Use**	**Exposure routes**	**Potential health effects**	**Value**
Titanium dioxide (stabilised)	Workers	Inhalation	long term – local effects	10 mg/m³
	Consumers	Ingestion	long term – systemic effects	700 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	**Environmental Compartment**	**Value**
Titanium dioxide	Soil	100 mg/kg
	Fresh water	0,127 mg/l
	Fresh water sediment	1000 mg/kg
	Marine Water	1 mg/l
	Marine sediment	100 mg/kg
	STO	100 mg/l

8.2. Personal protective equipment

Eye protection:
Safety glasses

Respiratory protection:
No personal respiratory protective equipment normally required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Appearance

Physical state:	liquid
Colour:	characteristic
Odour:	characteristic
pH:	no data available
Freezing point:	no data available
Boiling point/boiling range:	no data available
Flash point:	>100 °C
Bulk density:	no data available
Flammibility(solid, gas)	no data available
Upper explosion limit:	no data available
Lower explosion limit:	no data available
Vapour pressure at 20 °C:	no data available
Density at 20 °C:	no data available
Solubility in water:	no data available
Solubility in other solvents:	no data available
Partition coefficient n-octanol/water:	no data available
Auto ignition temperature:	no data available
Thermal decomposition:	no data available
Viscosity, dynamic:	no data available
Viscosity, kinematic:	no data available
Flow time:	no data available

9.2. Other information

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical Stability

No data available.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible Materials

No data available.

10.6. Hazardous decomposition products

No data available.

SECTION 11: TOXICOLOGIC INFORMATION

11.1. Acute Toxicity

Skin corrosion / irritation:	no data available
Serious eye damage/ eye irritation:	no data available
Respiratory or skin sensitization:	no data available
Carcinogenicity:	no data available
Toxicity to reproduction/fertility	no data available
Reprod.Tox., Development, Teratog.	no data available
STOT – single exposure	no data available
STOT – repeated exposure	no data available
Aspiration toxicity	no data available

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:
No data available

12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential
No data available.

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects
Additional ecotoxicological remarks:
No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

European Waste Catalogue: 08 01 11 - waste paint and varnish containing organic solvents or other dangerous substances.

13.1. Waste treatment methods
Product:
In accordance with local and national regulations.

Contaminated packaging:
Empty containers should be taken to an approved waste handling site for recycling or disposal.
In accordance with local and national regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. to 14.5.

ADR:	not restricted
ADNR:	not restricted
RID:	not restricted
IATA:	not restricted
IMDG:	not restricted

14.6. Transport / Additional Information
No dangerous goods according to transport regulations

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not dangerous according to the above specifications.

SECTION 15: LEGISLATIVE PROVISIONS

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:	Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants:	Not applicable

15.2. Chemical safety assessment
No data available

SECTION 16: OTHER INFORMATION

Observe national and local legal requirements

List of the text of the hazard statements mentioned section 3 (H-phrases) :

H315	Causes skin irritation.

Full text of other abbreviations

Flam. Sol.:	Flammable solids
GB EH40:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA:	Long-term exposure limit (8-hour TWA reference period)

Change compared to the previous version:
Change in the composition

Legend

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
ASTM	American Society for the Testing of Materials
bw	Body weight
CLP	Classification Labelling Packaging Regulation Regulation (EC) No 1272/2008
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DIN	Standard of the German Institute for Standardisation
DMEL	Derived Minimal Effect Level (genotoxic substances)
DNEL	Derived No Effect Level
DSL	Domestic Substances List (Canada)
ECHA	European Chemicals Agency
EC-Number	European Community number
ECx	Concentration associated with x% response
ELx	Loading rate associated with x% response
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
ErCx	Concentration associated with x% growth rate response
GHS	Globally Harmonized System
GLP	Good Laboratory Practice
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association

IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50	Half maximal inhibitory concentration
ICAO	International Civil Aviation Organization
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organisation for Standardization
KECI	Korea Existing Chemicals Inventory
LC50	Lethal Concentration to 50 % of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	International Convention for the Prevention of Pollution from Ships
n.o.s.	Not Otherwise Specified
NO(A)EC	No Observed (Adverse) Effect Concentration
NO(A)EL	No Observed (Adverse) Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Co-operation and Development
OPPTS	Office of Chemical Safety and Pollution Prevention
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
(Q)SAR	(Quantitative) Structure Activity Relationship
REACH	Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SADT	Self-Accelerating Decomposition Temperature
SDS	Safety Data Sheet
TCSI	Taiwan Chemical Substance Inventory
TRGS	Technical Rule for Hazardous Substances
TSCA	Toxic Substances Control Act (United States)
UN	United Nations
vPvB	Very Persistent and Very Bioaccumulative

Decimal notation: "thousands" places are identified with a dot (for example, "2.000 mg/kg" means "two thousand mg/kg"). Decimal places are identified with a comma (for example, "1,35 g/cm^3" means "one point three five g/cm^3").

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